

Special Issue

Synthesis and Applications of Eco-Friendly Polymers

Message from the Guest Editors

During the last decades, environmental protection has become one of the most important issues, especially concerning plastic waste. One interesting strategy is the use of polymeric matrix composites filled with natural waste product. In this class of materials, wood plastic composites (WPCs) are strengthened, thanks to their potential recyclability and the possibility to use waste materials for their production.

The increasing consumption of polymer materials and the attention to environmental problems have directed research towards the reduction of oil-based consumption. In fact, the disposal of polyolefins has highlighted important problems related to the low degradation rate in environmental conditions. The use of oil-based/biderived polymer blends is an effective way to reduce oil-based consumption, increasing, at the same time, biderived polymer properties. One of the main features of biderived polymers is their desirable high eco-friendly footprint.

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